

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Pranab K. Raychaudhuri, et al

ORGANIC LIGHT-EMITTING  
DEVICE HAVING IMPROVED  
STABILITY

Serial No. To be assigned

Filed Herewith

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Group Art Unit:

Examiner:

Express Mail Label No. EV293510242US

Date

3-19-04

Sir:

**INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION**  
**BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99**

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

Applicants request that the Patent and Trademark Office make of record the above-identified documents. A full text copy of each document is attached, except for copies of U.S. patents and U.S. patent application publications. For documents not in English, an English translation or an equivalent English language patent or publication may be attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement (hereinafter "Statement") is submitted according to the following selected paragraph:

- I. ☒ This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the mailing of a first Office action on the merits or before the mailing of a first Office action after the filing of a request for continued examination.
- II. ☐ This Statement is being filed under §1.97(c), with fee, **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Certification is enclosed.

III. ☐ This Statement is being filed under §1.97(c), with a certification under, §1.97(e) **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):

☐ each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

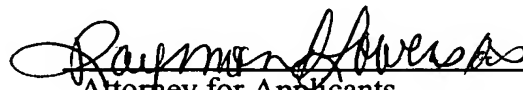
IV. ☐ This Statement is being filed under §1.97(d), with fee and certification under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Certification is enclosed. The undersigned hereby states that (check one):

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☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,

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Enclosures

  
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FORM PTO-1449

US DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

Atty. Docket No.

87550RLO

Customer No. 01333

Serial No.

to be assigned

If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee

## LIST OF ART CITED BY APPLICANT

(Use several sheets if necessary)

Applicant:

Pranab K. Raychaudhuri, et al

Filing Date

19 March 2004

Group

## U.S. PATENT DOCUMENTS

Examiner Initial*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,769,292	9/6/88	Tange et al.			
	4,885,211	12/5/89	Tang et al.			
	6,020,078	2/1/00	Chen et al.			
	5,645,948	7/8/97	Shi et al.			
	6,226,890	5/8/01	Boroson et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES   NO
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	"High-efficiency top-emitting organic light-emitting devices" by M. H. Lu et al., Applied Physics Letters, Volume 81, Number 21, November 18, 2002, pages 3921-3923
	"Phosphorescent top-emitting organic light-emitting devices with improved light outcoupling" by H Riel, et al., Applied Physics Letters, Volume 82, Number 3, January 20, 2003, pages 466-468
	1.3: Performance Enhancement of Top- and Bottom-Emitting Organic Light-emitting devices using microcavity structures, by P. K. Raychaudhuri, et al., Proceeding of the The 23 <sup>rd</sup> International Display Research Conference, Phoenix, AZ, USA, Sept 15 -19, 2003, p 10
	"Metal oxides as a hole-injecting layer for an organic electroluminescent device" by Shizuo Tokito et al., J. Phys. D: Appl. Phys. (1996) 2750-2753.
	"Fabrication of Lithium-Based Alloy Cathodes for Organic Light-Emitting Diodes" by D C Magnetron Sputtering", by P. K. Raychaudhuri et al., SID 2001 International Symposium (June 5 -7, San Jose, California) Digest, paper 31.4; Vol. 32, pp. 526-529, 2001
	"Fabrication of sputtered cathode for organic light-emitting diodes (OLED) using transparent buffer", by P. K. Raychaudhuri et al., Proceedings of the 7th Asian Symposium on Information Display (Sept 2 -4, Singapore) Digest, paper 50; Vol. 32, pp. 55-58, 2002
	"Organic electroluminescent devices with improved stability" by S. A. VanSlyke, et al., Appl. Phys. Letter 69 (15) October 7, 1996, pages 2160-2162

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.